

## Exhibit 300: Capital Asset Summary

### Part I: Summary Information And Justification (All Capital Assets)

#### Section A: Overview & Summary Information

**Date Investment First Submitted:** 2009-06-30  
**Date of Last Change to Activities:** 2012-08-20  
**Investment Auto Submission Date:** 2012-02-28  
**Date of Last Investment Detail Update:** 2012-06-29  
**Date of Last Exhibit 300A Update:** 2012-06-29  
**Date of Last Revision:** 2012-08-20

**Agency:** 006 - Department of Commerce Administration      **Bureau:** 60 - National Telecommunications and Information Administration

**Investment Part Code:** 01

**Investment Category:** 00 - Agency Investments

**1. Name of this Investment:** NTIA - Radio Spectrum Management - Federal Spectrum Management System (FSMS)

**2. Unique Investment Identifier (Ull):** 006-000731200

#### Section B: Investment Detail

- 1. Provide a brief summary of the investment, including a brief description of the related benefit to the mission delivery and management support areas, and the primary beneficiary(ies) of the investment. Include an explanation of any dependencies between this investment and other investments.**

The United States & Possessions are running out of identifiable, interference-free spectrum as new technologies leverage previously unused resource, bands become more congested due to increased demand and, antiquated, stove-piped systems hinder identification of available spectrum. FSMS implements improved data capture and analysis capabilities to: support the Federal Spectrum Management needs of the US Government by identifying and managing spectrum for Federal use; and, identify and release spectrum for non-Federal use. Mission critical Federal Operations depend on prompt NTIA action on spectrum requests, so NTIA's primary spectrum management mission is to fulfil Federal Agency Spectrum Requirements. Over the next several years, the way that NTIA analyzes spectrum usage, assigns frequencies, and certifies systems will change dramatically. NTIA established the Federal Spectrum Management System (FSMS) investment to tackle these challenges, and several concurrent and linked projects will be launched to achieve specific development milestones. Data is so essential to almost every aspect of the NTIA mission that it can be considered a component of basic infrastructure. This importance is underscored by complexity in the data and its uses. Diverse geospatial data, user data, equipment specifications, frequency characteristics, and much more must be collected, stored, linked, and analyzed in many different ways on both a high volume transactional and ad-hoc basis.

Finally, huge stores of unstructured data primarily information stored as documents or scanned documents must be managed and linked in a variety of processes. The FSMS investment will deliver to NTIA and the Federal Spectrum Community 1) improved enterprise data model and analysis algorithms to support spectrum efficiency; 2) improved delivery of the spectrum management systems software products; and, 3) improve access control while improving the Federal government's spectrum management efficiency, saving time and money, and improving operations. This investment will result in retirement of the FMRS investment. Primary beneficiaries of this investment are NTIA, Federal agencies who use the radio spectrum to support their missions, and ultimately the citizens of the United States who are a) served by agencies using the spectrum and b) realize the benefit of more available spectrum resource for non-Federal applications.

**2. How does this investment close in part or in whole any identified performance gap in support of the mission delivery and management support areas? Include an assessment of the program impact if this investment isn't fully funded.**

1. The United States Government Accountability Office reported to Congress in April 2011 that "NTIA's Data Management System Lacks Transparency and Data Validation Processes, Making It Uncertain If Spectrum Management Decisions Are Based on Accurate and Complete Data...In developing the new Federal Spectrum Management System, incorporate adequate internal controls for validating the accuracy of agency-reported information submitted during the assignment, certification, and frequency assignment review processes."
2. The NTIA has long standing goals to reduce the time it takes to process Frequency Proposals and Requests for Certification of Spectrum Support. FSMS provides improved processing, data standard and engineering algorithms in support of these goals.

**3. Provide a list of this investment's accomplishments in the prior year (PY), including projects or useful components/project segments completed, new functionality added, or operational efficiency achieved.**

1. Developed SXXIO Release 1, and began product testing.
2. Prepared preliminary design for SXXIO Release 2.
3. Began preparation for equipment characteristics repository capability.
4. Prepared budget change request.
5. Completed Memorandum of Understanding amendment.
6. Began period of performance for SXXIO Release 2.

**4. Provide a list of planned accomplishments for current year (CY) and budget year (BY).**

6/30/2012. Provide Spectrum XXI Online capability to prepare and submit Frequency Proposals for use by NTIA and IRAC agency partners. 6/30/2012 Provide XML data standard for use by NTIA and IRAC agency partners. 6/30/2013. Provide capability to populate and manage equipment characteristics repository for use in Frequency Proposal process to NTIA and IRAC agency partners. 6/30/2013. Provide SXXI Online capability to receive and process Frequency Proposals to NTIA and IRAC agency partners.

**5. Provide the date of the Charter establishing the required Integrated Program Team (IPT) for this investment. An IPT must always include, but is not limited to: a qualified fully-dedicated IT program manager, a contract specialist, an information technology**

**specialist, a security specialist and a business process owner before OMB will approve this program investment budget. IT Program Manager, Business Process Owner and Contract Specialist must be Government Employees.**

2006-03-01

## Section C: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.C.1 Summary of Funding

	PY-1 & Prior	PY 2011	CY 2012	BY 2013
Planning Costs:	\$3.8	\$0.0	\$0.0	\$0.0
DME (Excluding Planning) Costs:	\$9.8	\$10.8	\$4.0	\$0.0
DME (Including Planning) Govt. FTEs:	\$2.8	\$0.6	\$0.8	\$0.8
Sub-Total DME (Including Govt. FTE):	\$16.4	\$11.4	\$4.8	\$0.8
O & M Costs:	\$2.3	\$0.5	\$0.0	\$0.1
O & M Govt. FTEs:	\$2.3	\$0.0	\$0.0	\$0.0
Sub-Total O & M Costs (Including Govt. FTE):	\$4.6	\$0.5	0	\$0.1
Total Cost (Including Govt. FTE):	\$21.0	\$11.9	\$4.8	\$0.9
Total Govt. FTE costs:	\$5.1	\$0.6	\$0.8	\$0.8
# of FTE rep by costs:	34	4	6	6
Total change from prior year final President's Budget (\$)		\$8.1	\$2.7	
Total change from prior year final President's Budget (%)		214.90%	125.70%	

**2. If the funding levels have changed from the FY 2012 President's Budget request for PY or CY, briefly explain those changes:**

Revised BY2009 and BY2010 to align with actuals. Revised summary of funding for CY2011-2015 to align with approximate 2 year delay due to 2009 procurement delay, improved estimates, and addition of hardware and software. Also, revised FY10, FY11 and CY12 to reflect funding of no-year funds in those years covering spending in FY10, PY11, CY12, and most of BY13. Added steady state for BY2016 - BY2026.

## Section D: Acquisition/Contract Strategy (All Capital Assets)

Table I.D.1 Contracts and Acquisition Strategy

Contract Type	EVM Required	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	IDV Agency ID	Solicitation ID	Ultimate Contract Value (\$M)	Type	PBSA ?	Effective Date	Actual or Expected End Date
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NONE

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

Exhibit 300B: Performance Measurement Report

Section A: General Information

Date of Last Change to Activities: 2012-08-20

Section B: Project Execution Data

Table II.B.1 Projects					
Project ID	Project Name	Project Description	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)
7312M11001	FSMS Phase 01 - Prepare & Submit Frequency Proposals	Implement SXXIO Prepare and Submit Frequency Proposal.			
7312M11002	FSMS Phase 02 - Authorize Frequency Proposals	Implement SXXIO Receive and Process Frequency Proposal, Data Standard, Equipment Characteristics Repository.			

Activity Summary								
Roll-up of Information Provided in Lowest Level Child Activities								
Project ID	Name	Total Cost of Project Activities (\$M)	End Point Schedule Variance (in days)	End Point Schedule Variance (%)	Cost Variance (\$M )	Cost Variance (%)	Total Planned Cost (\$M)	Count of Activities
7312M11001	FSMS Phase 01 - Prepare & Submit Frequency Proposals							
7312M11002	FSMS Phase 02 - Authorize Frequency Proposals							

Key Deliverables								
Project Name	Activity Name	Description	Planned Completion	Projected	Actual Completion	Duration	Schedule Variance	Schedule Variance

Key Deliverables								
Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days )	Schedule Variance (%)
			Date	Completion Date	Date	(in days)	(in days )	(%)
7312M11001	Develop SXXIO R1	Develop Spectrum XXI Online Release 1 for Federal Agencies to Prepare and Submit Frequency Proposals to NTIA.	2011-06-30	2011-06-30	2011-06-30	759	0	0.00%
7312M11001	Complete SXXIO System Testing	Complete SXXIO Release 1 System Testing	2011-09-30	2011-09-30	2011-09-30	91	0	0.00%
7312M11002	Complete SXXIO Release 2 Kick-Off	Complete SXXIO Release 2 Kick-off	2011-09-30	2011-09-30	2011-09-30	28	0	0.00%
7312M11001	Complete SXXIO PATE	Complete SXXIO Product Acceptance Test Evaluation.	2011-10-31	2011-10-31	2011-10-31	28	0	0.00%
7312M11002	Provide Pub8 XML Training	Provide Pub8 XML Training to participants in the Data Exchange Standard Definition effort.	2011-11-30	2011-11-30	2011-11-30	58	0	0.00%
7312M11002	Complete SXXIO R2 Checkpoint 1 (Receive & Process FP UI & Workflow Mockup, FSMdb Prototype, Functional Spec for Business Rules)	Complete SXXIO R2 Checkpoint 1 (Receive & Process FP UI & Workflow Mockup, FSMdb Prototype, Functional Spec for Business Rules)	2011-12-30	2011-12-30	2011-12-30	29	0	0.00%
7312M11001	Acquire and Implement Hardware/Software Infrastructure	Acquire and Implement Hardware/Software Infrastructure including Google Earth, Siteminder and Hardware.	2011-12-31	2012-06-08	2012-06-08	60	-160	-266.67%
7312M11001	Fix SXXIO R1 PATE Related PCRs & Provide Final SXXIO R1 Build	Fix SXXIO R1 PATE Related PCRs & Provide Final SXXIO R1 Build to NTIA.	2011-12-31	2011-12-31	2011-12-31	60	0	0.00%



Key Deliverables								
Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days )	Schedule Variance (%)
7312M11002	Complete SXXIO R2 Checkpoints 2 & 3	Complete SXXIO R2 Checkpoints 2 & 3	2012-02-29	2012-02-29	2012-02-29	57	0	0.00%
7312M11001	Achieve Authority to Operate and SXXIO R1 Operational Readiness	Achieve authority to operate and operational readiness.	2012-02-29	2012-06-15	2012-06-28	57	-120	-210.53%
7312M11002	Complete SXXIO Checkpoint 4 (Complete Data Exchange Standard CONOPS Draft, Receive & Process Prototype, ITM Propagation Prototype)	Complete SXXIO R2 Checkpoint 4 (Complete Data Exchange Standard CONOPS Draft, Receive & Process Prototype, ITM Propagation Prototype)	2012-03-30	2012-03-30	2012-03-30	29	0	0.00%
7312M11002	Complete Preliminary Design Review & Equipment Characteristics Database Design	Complete Preliminary Design Review & Equipment Characteristics Database Design	2012-03-31	2012-03-31	2012-04-04	30	-4	-13.33%
7312M11002	Complete SXXIO R2 Checkpoint 5 (CDS Documents, FSMdb Schema, Data Map Recommendations, DataDir and SXXI Legacy Rules Assessment)	Complete SXXIO R2 Checkpoint 5 (CDS Documents, FSMdb Schema, Data Map Recommendations, DataDir and SXXI Legacy Rules Assessment)	2012-04-30	2012-05-18	2012-05-18	28	-18	-64.29%
7312M11002	Complete SXXIO R2 Checkpoint 6 (Voting Prototype, Analysis Results Viewer, Data Exchange Design Review)	Complete SXXIO R2 Checkpoint 6 (Voting Prototype, Analysis Results Viewer, Data Exchange Design Review)	2012-05-31	2012-06-06	2012-06-06	30	-6	-20.00%
7312M11002	Provide FSMS Data Exchange Standard & Independent Program Evaluation Findings	Provide FSMS Data Exchange Standard & Independent Program Evaluation Findings	2012-06-29	2012-06-29	2012-06-28	28	1	3.57%
7312M11002	Implement Equipment Characteristics Database. Complete	Implement Equipment Characteristics Database. Complete	2012-07-31	2012-07-31	2012-07-31	29	0	0.00%

## Key Deliverables

Project Name	Activity Name	Description	Planned Completion Date	Projected Completion Date	Actual Completion Date	Duration (in days)	Schedule Variance (in days )	Schedule Variance (%)
	Program Review.	Program Review.						
7312M11002	Complete SXXIO R2 Checkpoint 5 - CDS Prototype, R&P Queries.	Complete SXXIO R2 Checkpoint 7 - CDS Prototype, R&P Queries.	2012-08-31	2012-08-31		30	0	0.00%

## Section C: Operational Data

Table II.C.1 Performance Metrics

Metric Description	Unit of Measure	FEA Performance Measurement Category Mapping	Measurement Condition	Baseline	Target for PY	Actual for PY	Target for CY	Reporting Frequency
Achieve production release for preparing and submitting Frequency Proposals.	number	Mission and Business Results - Support Delivery of Services	Over target	0.000000	0.000000	0.000000	1.000000	Quarterly
Increase the number of workflows supported by the OSM Enterprise Content Management System (ECM) to collaborate, track workflow, and facilitate decision making.	number	Mission and Business Results - Support Delivery of Services	Under target	0.000000	0.000000	0.000000	1.000000	Quarterly
Increase quality of frequency assignment data (# of Frequency Proposals prepared and submitted to NTIA using SXXIO each month).	Number	Customer Results - Service Quality	Over target	0.000000	0.000000	0.000000	50.000000	Monthly
Provide federal spectrum management data exchange standard.	Number	Technology - Information and Data	Over target	0.000000	0.000000	0.000000	1.000000	Semi-Annual
Achieve Spectrum XXI Online system available to users for 95% of scheduled up-time. (Actual up-time/Scheduled up-time).	Percent	Technology - Reliability and Availability	Over target	0.000000	0.000000	0.000000	95.000000	Monthly
Ensure 100% of frequency proposals submitted to NTIA via SXXIO Release 1 are checked against	Percent	Technology - Quality Assurance	Over target	0.000000	0.000000	0.000000	100.000000	Monthly

Table II.C.1 Performance Metrics

Metric Description	Unit of Measure	FEA Performance Measurement Category Mapping	Measurement Condition	Baseline	Target for PY	Actual for PY	Target for CY	Reporting Frequency
legacy system validations. (Number of frequency proposals checked against legacy system validations/Number of frequency proposals submitted to NTIA via SXXIO.)								
Achieve production release for authorizing Frequency Proposals.	Number	Mission and Business Results - Support Delivery of Services	Over target	0.000000	0.000000	0.000000	0.000000	Semi-Annual
Increase quality of frequency assignment data (# of SXXIO originating Frequency Proposals authorized by NTIA each month).	Number	Customer Results - Service Quality	Over target	0.000000	0.000000		0.000000	Monthly